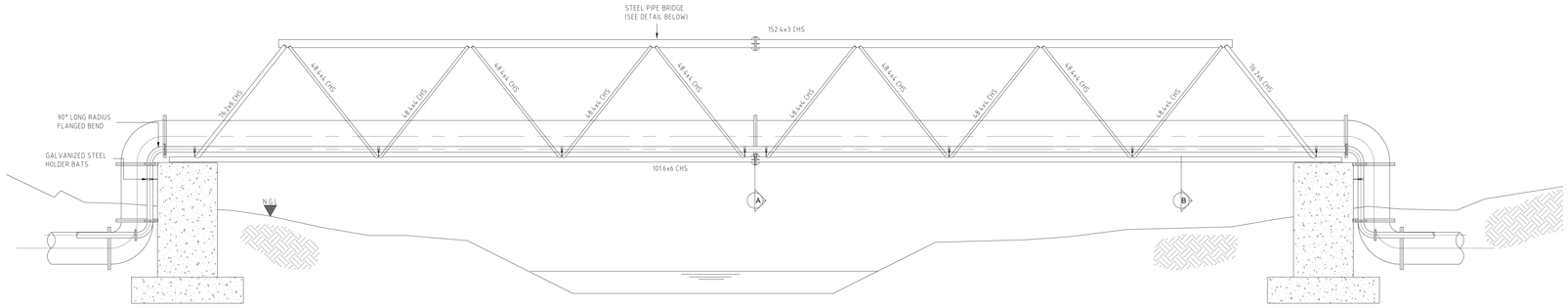
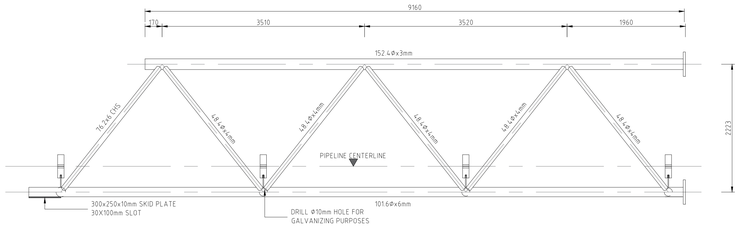
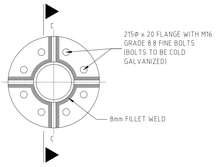


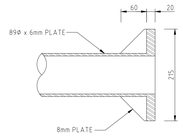

TYPICAL CROSS SECTION OF CANAL CROSSING
SCALE 1:40



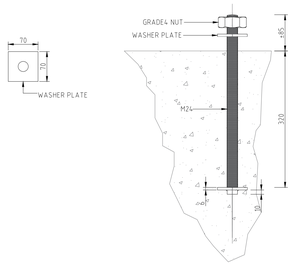

ELEVATION ON END UNIT
SCALE 1:20



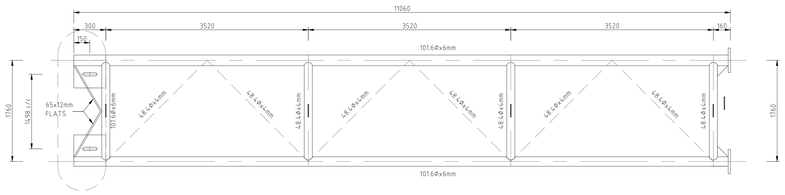

DETAIL A
SCALE 1:5



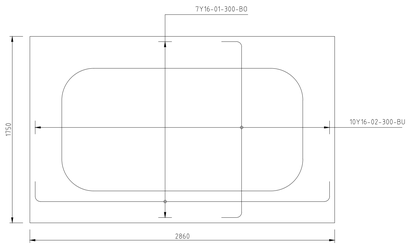

SECTION C-C
SCALE 1:5



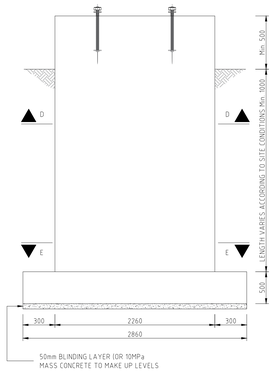

HD BOLT DETAIL
SCALE 1:5



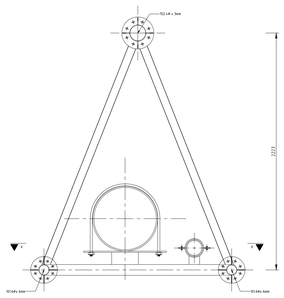

SECTION X-X ON END UNIT
SCALE 1:20



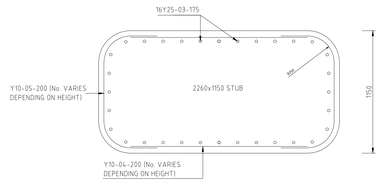

REBAR ON SECTION E-E
SCALE 1:20



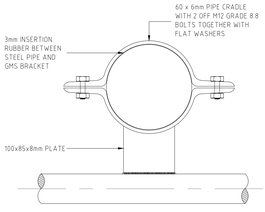

COLUMN DETAIL
SCALE 1:20




SECTION A-A
SCALE 1:10




REBAR ON SECTION D-D
SCALE 1:20




SECTION B-B
SCALE 1:5

| MEMBER | No. OF | BARS PER MEMBER | DIA | LENGTH | TOTAL NUMBER | BAR MARK | SHAPE CODE | BENDING | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A | B | C | D | E |
| BASE TO PIPE BRIDGE | 1 | 7 | Y16 | 3095 | 7 | 01 | 35 | 2760 | | | | |
| | | 10 | Y16 | 1985 | 10 | 02 | 35 | 1650 | | | | |
| | | 32 | Y25 | VARIES | 32 | 03 | 34 | VARIES | | | | |
| | | VARIES | Y10 | 1660 | VARIES | 04 | 20 | 1660 | | | | |
| | | VARIES | Y10 | 1835 | VARIES | 05 | 38 | 500 | 1050 | | | |
| | NOTE: BARS 03,04 & 05 ARE DEPENDENT ON COLUMN HEIGHT | | | | | | | | | | | |

NOTE: THIS BENDING SCHEDULE IS FOR A SINGLE COLUMN

BENDING SCHEDULE

## NOTES:

1. ALL STEEL GRADE 300W
2. ALL STEELWORK TO BE HOT DIPPED GALVANIZED (HEAVY DUTY) TO SANS 1200
3. ALL BOLTS GRADE 8.8 HOT DIPPED GALVANIZED TO SANS 1200
4. RC BASES AND PLINTH DETAILS TO BE FINALIZED ON DETERMINATION OF STRUCTURE ELEVATION ABOVE NGL AND FOUNDING CONDITIONS
5. 6m MODULES TO BE FLANGED AND SPAN A TOTAL OF 24m. FOR LONGER SPANS, A COLUMN SUPPORT IS NEEDED IN BETWEEN AND AT BOTH ENDS.
6. COLUMN HEIGHTS VARY ACCORDING TO SITE CONDITIONS AND PRESENCE OF SOLID FOUNDING CONDITIONS
7. BENDING SCHEDULE AND BARS ARE DEPENDANT ON HEIGHT OF COLUMNS SELECTED AFTER SITE INSPECTION
8. V.J JOINT TO BE INSERTED ALONG THE SPAN TO ALLOW FOR EXPANSION
9. ALL FLANGES TO HAVE 2 GUSSET PLATES AND BE 100mmX100mmX10mm
9. ALL UNITS ARE IN MILLIMETERS

NOTES TO BENDING SCHEDULE

1. COVER TO BOTTOM OF BASE = 75mm
2. COVER TO SIDE OF BASE = 50mm
3. COVER TO SIDES OF STUB = 50mm
4. BU DENOTES BOTTOM UNDER
5. BO DENOTES BOTTOM OVER

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| DRAWING No. | REFERENCE DRAWINGS : |
|---|---|
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| | |

| NO. | DATE | REVISION | DRAWN |
|---|---|---|---|
| 0 | NOV 2025 | ISSUED FOR TENDER | B.S. |

**FOR TENDER**

CLIENT

NOTES:

UMKHANYAKUDE DISTRICT MUNICIPALITY
KINGFISHER ROAD
MKUZE
3965
TEL: (035) 573 8600
FAX: (035) 573 1094

CONSULTING ENGINEERS

2 NCONDO PLACE
RIDGESIDE DRIVE
UMHLANGA RIDGE
DURBAN
4320
TEL: 031 101 3217

PROJECT

# KWAJOBE COMMUNITY WATER SUPPLY SCHEME: PHASE 1

DRAWING TITLE

# WATER PIPE BRIDGE

| | SIGNATURE FOR FLUX/SDM | DATE | PR.No. | SHEET SIZE |
|---|---|---|---|---|
| DESIGNED | B.S | SEP 2025 | | A1 |
| DRAWN | B.S | SEP 2025 | | SCALE |
| CHECKED | N.N | SEP 2025 | | AS SHOWN |
| APPROVED | N.N | SEP 2025 | | DWG STATUS P |
| CO-ORDINATOR | | | | P = PRELIMINARY C = CONSTRUCTION |

FLUX/S.D.M. DRAWING NUMBER

UKDM/STR/200

REVISION No 0

FLUX/SDM-DRAWING No.

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